



**METROPOLITAN  
TRANSPORTATION  
COMMISSION**

Agenda Item No. 4

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***Memorandum***

TO: Operations Committee

DATE: June 1, 2012

FR: Executive Director

W.I. 1234

RE: Program for Arterial System Synchronization (PASS) Actions:

- (i) FY 2012-13 Cycle of Projects (\$1,150,000)
- (ii) Contract Amendments: Kimley-Horn & Associates (\$420,000), TJKM Transportation Consultants (\$360,000), and URS Corporation (\$220,000)

**Background**

The purpose of the Program for Arterial System Synchronization (PASS) is to provide technical and financial assistance to Bay Area agencies to improve the safety and efficiency of the operations of traffic signal systems/corridors. The program is guided by the Arterial Operations advisory committee, which is comprised of technical staff from cities and counties. The Transportation 2035 Plan provides approximately \$1.2 million per year in Congestion Mitigation and Air Quality (CMAQ) funds for traffic signal coordination on arterials of regional significance. The PASS provides traffic engineering assistance to local jurisdictions in retiming their traffic signals, including transit signal priority, incident management flush plans, traffic responsive timing plans, additional timing plans for school peak hours, and establishing communication between state and local signals. The program successfully delivers benefits to Bay Area travelers – including shorter travel times, reduced tailpipe emissions and improved safety for bicyclists and pedestrians – that outpace costs by a ratio of 80 to 1.

The PASS projects typically include the following elements: (1) analysis of existing conditions, including conducting new traffic counts and performing travel time and delay studies for autos and transit; (2) development of recommended timing plans based on the assessment of existing conditions; (3) implementation of the approved timing plans; and (4) evaluation of the project's signal timing benefits across modes. Projects are defined by local agencies and Caltrans, evaluated by MTC and Caltrans staff, and assigned to consultants retained by MTC. Under this regional program, technical assistance and financial support will be focused on traffic signal system projects that:

- Interact with freeways and state highways;
- Involve traffic signals from multiple jurisdictions;
- Operate on corridors with established regional significance;
- Provide priority for transit vehicles; and/or
- Have been developed in conjunction with other regional programs, such as the Transit Performance Initiative (TPI), Safe Routes to Schools/Transit, Complete Streets, Smart Corridors, and Integrated Corridor Management (ICM).

**i) FY 2012-13 Cycle of Projects**

The Call for Projects for the FY 2012-13 Cycle was released on March 5, 2012. MTC received 25 applications totaling 709 traffic signals from five counties in the Bay Area. MTC staff, in partnership with Caltrans, formed a review panel and all of the applications were reviewed for their adherence to the following goals and objectives of the program:

- Coordinate local and state-owned signal systems, and retime signal systems in response to changes to the state-owned system;
- Establish and maintain communications between systems owned by Caltrans and local agencies; and
- Retime traffic signal systems to support priority for transit vehicles and other regional programs, such as the TPI, Safe Routes to Schools/Transit, Complete Streets, Smart Corridors, ICM, and Incident Management.

The review panel recommends the approval of 17 projects consisting of 339 signals for the FY 2012-13 Cycle of the PASS as listed in Table 1, Program for Arterial System Synchronization – FY 2012-13 Cycle Projects. One project, sponsored by the City of Oakland for the Broadway corridor, is approved but will be funded out of the TPI and implemented in line with the larger AC Transit Line 51 Corridor Speed Protection and Restoration Project.

**ii) Contract Amendments: Kimley-Horn & Associates (\$420,000); TJKM Transportation Consultants (\$360,000); and URS Corporation (\$220,000)**

Pursuant to this Committee's approval on June 11, 2010, staff entered into competitively procured one-year contracts with Kimley-Horn & Associates, TJKM Transportation Consultants, and URS Corporation for the PASS. The procurement terms included an option to extend the period of performance for up to two one-year periods. Staff conducted performance evaluation surveys with all of the local jurisdictions participating in both the PASS 2010/11 and 2011-12 cycles and found the consultants' performance to be satisfactory. Staff therefore recommends extending all three consultant contracts and adding funds for one final additional year to cover the FY 2012-13 Cycle of the PASS. Of the remaining \$1,150,000 for the 2012-13 Cycle of Projects not used for these contract amendments, staff will use about \$75,000 to procure and install the required communications equipment and \$75,000 as a contingency reserve for the PASS.

**Recommendation**

Staff recommends that the Committee approve the 17 projects as listed in Table 1 for the 2012-13 Cycle of the PASS, subject to MTC approval of the FY 2012-13 budget. Staff also recommends that this Committee authorize the Executive Director or his designee to negotiate and enter into one-year contract amendments with Kimley-Horn & Associates (\$420,000); TJKM Transportation Consultants (\$360,000); and URS Corporation (\$220,000) to provide technical assistance for the PASS, subject to approval of MTC's FY 2012-13 annual budget.



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Steve Heminger

SH: DS

**Table 1**  
**Program for Arterial System Synchronization – FY 2012-13 Cycle Projects**

#	County	Participating Agencies	# of Signals			Budget*
			Local	Caltrans	Total	
1	Marin	Novato; Caltrans	18	17	35	\$130,300
2	Contra Costa	Pinole; Richmond; Caltrans <sup>1</sup>	16	6	22	\$70,200
3	Alameda	Dublin <sup>7</sup>	21	0	21	\$75,850
4	Alameda	Emeryville; Oakland; Caltrans <sup>1,2,3,7</sup>	23	9	32	\$162,200
5	Alameda	Fremont; Caltrans <sup>8</sup>	7	2	9	\$30,650
6	Alameda	Livermore; Caltrans <sup>6</sup>	33	6	39	\$87,200
7	Alameda	Oakland <sup>1,4</sup>	22	0	22	\$61,100
8	Alameda	Union City; Caltrans	10	2	12	\$65,000
9	Alameda	ACPWA; Caltrans	14	3	17	\$43,350
10	Santa Clara	Cupertino; Caltrans <sup>5</sup>	12	2	14	\$44,200
11	Santa Clara	Los Gatos <sup>2</sup>	9	0	9	\$27,950
12	Santa Clara	Mountain View; Caltrans	12	3	15	\$51,700
13	Santa Clara	San Jose ; Caltrans	12	2	14	\$39,500
14	Santa Clara	SCL County	27	0	27	\$41,500
15	San Mateo	Daly City; Caltrans	9	2	11	\$47,550
16	San Mateo	Foster City; Caltrans	24	3	27	\$64,050
17	San Mateo	Menlo Park; Atherton; Caltrans	8	5	13	\$32,700
<b>Sub-Total</b>			<b>277</b>	<b>62</b>	<b>339</b>	<b>\$1,075,000</b>
<b>Contingency Reserve</b>						<b>\$75,000</b>
<b>PASS FY 12/13 Cycle Total</b>						<b>\$1,150,000</b>

\* Includes estimates for signal coordination plans (weekday peak, weekend peak, school peak, traffic responsive), additional services, funding agreements, communications equipment, etc.

<sup>1</sup> Supports the I-80 Integrated Corridor Management Project

<sup>2</sup> Supports Safe Routes to School Projects

<sup>3</sup> Supports Safe Routes to Transit Projects

<sup>4</sup> Supports Complete Streets Projects

<sup>5</sup> Supports the Transit Performance Initiative

<sup>6</sup> Supports Incident Management Plans

<sup>7</sup> Supports Transit Signal Priority Implementation

<sup>8</sup> Supports the Highway Safety Improvement Program

## REQUEST FOR COMMITTEE APPROVAL

### Summary of Proposed Contract Amendments

Work Item No.: 1234

Contractors: Kimley-Horn and Associates, Inc. (Pleasanton, CA)  
TJKM Transportation Consultants (Pleasanton, CA)  
URS Corporation (San Jose, CA)

Work Project Title: Program for Arterial System Synchronization (PASS)

Purpose of Project: To provide traffic engineering assistance and expertise to local jurisdictions in retiming their traffic signals.

Brief Scope of Work: To provide assistance with the analysis of existing conditions, including collection of new traffic counts and performing travel time and delay studies; development of recommended timing plans; implementation of approved timing plans; and evaluation of the benefits of the projects.

Project Cost for Amendments: Kimley Horn and Associates, Inc.: \$420,000 (this amendment); total contract before this amendment: \$800,000; total authorized contract after this amendment: \$1,220,000  
TJKM Transportation Consultants: \$360,000 (this amendment); total contract before this amendment: \$720,000; total authorized contract after this amendment: \$1,080,000  
URS Corporation: \$220,000 (this amendment); total contract before this amendment: \$640,000; total authorized contract after this amendment: \$860,000

Funding Source: CMAQ

Fiscal Impact: Included in the proposed FY 2012-13 MTC Budget.

Motion by Committee: That the Executive Director or his designee is authorized to negotiate and enter into contract amendments with Kimley-Horn & Associates, TJKM Transportation Consultants, and URS Corporation to provide traffic engineering assistance and expertise to Bay Area jurisdictions as described above and in the Executive Director's memorandum dated June 1, 2012 and the Chief Financial Officer is authorized to set aside funds for such contracts in the above amounts, subject to approval of MTC's proposed FY 2012-13 annual budget.

MTC Operations Committee:

Approved: \_\_\_\_\_  
Jake Mackenzie, Chair

Approved: \_\_\_\_\_ Date: June 8, 2012

## REQUEST FOR COMMITTEE APPROVAL

Work Item No.: 1234

Work Project Title: Program for Arterial System Synchronization (PASS)

Cycle of Projects: (See Attachment A to Staff Memorandum)

Brief Scope of Work: Projects to include assistance with the analysis of existing conditions, including collection of new traffic counts and travel time and delay studies; development of recommended timing plans, and implementation of approved timing plans.

Budgeted Cost for Projects: PASS FY 2012-13 cycle total \$1,150,000 (breakdown included in Attachment A to Staff Memorandum).

Funding Source: CMAQ

Fiscal Impact: Included in the proposed FY 2012-13 MTC Budget.

Motion by Committee: That the 17 projects listed in Attachment A to the Staff Memorandum for the FY 2012-13 cycle of the Program for Arterial System Synchronization (PASS) are approved.

MTC Operations Committee:

Approved: \_\_\_\_\_  
Jake Mackenzie, Chair

Approved: Date: June 8, 2012

